

Aqueous emulsifier-free coating composition and its use in processes for the production of multilayer coatings

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Abstract

Aqueous, emulsifier-free coating composition which is suitable in particular for the production of basecoat layers of multilayer coatings and has a solids content of from 10 to 50% by weight and an organic solvent content of below 20% by weight, and which comprises as binder a combination of: A) from 50 to 100% by weight of one or more water-thinnable binders, at least 50% by weight of which (based on the weight of solids of the resins of component A) comprise one or more water-thinnable polyester-urethane resins and/or alkyd-urethane resins having an acid number of from 10 to 100 and a hydroxyl number of up to 150, the remainder comprising one or more water-thinnable (meth)acrylic copolymers, polyurethane resins and/or polyester resins, the resins in each case being present in a form in which they are partially or completely neutralised with bases, with B) from 50 to 0% by weight of one or more crosslinking agents for the resins of component A), at least 50% by weight of which crosslinking agents (based on the weight of solids of the crosslinking agents of component B) comprise one or more water-insoluble amino resins, the remainder comprising one or more blocked polyisocyanates, and containing one or more pigments and, if desired, additives which are conventional in the paints and surface coatings, the weight ratio of pigments to binders being from 0.03 : 1 to 3 : 1.

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